



Portable Cooler / Heater Backpack



Model Name: GEC35-05

Suitable for: Road trips, camping, picnics, hiking, grocery freshness preservation, office food and beverage cooling/heating/insulation, etc.

Key Features: Semiconductor cooling/heating, extended cooling retention after power off (8+ hours), lightweight and portable, waterproof and leak-proof.

Remark: All the test results were obtained under the environmental temperature of 77°F (25°C).



- Go Cool Anywhere -

I. Product Overview

01. Product Description

This product is a "Portable Temperature Control Backpack" specially designed for outdoor use. It utilizes semiconductor cooling technology, eliminating the need for bulky compressors, and operates with zero vibration and zero pollution.

It delivers three core benefits: Dual-Temperature Control (Cooling/Heating) + Lightweight & Portable Design + Extended Thermal Retention (Cold or Heat).

When powered, it will adjust the internal temperature (MIN cooling down to 35.6°F/2°C and MAX heating up to 122°F/50°C at 77°F/25°C Amb. Temp.). Once unplugged, its high-performance insulation layer maintains a low temperature for over 8 hours at 77°F/25°C Amb. Temp. It reliably meets the all-day fresh storage needs for food and beverages during outdoor activities.

II. Component Identification and Functions

Part Name	Location (with diagram reference)	Core Function
Semiconductor Main Unit		Core temperature control component. Provides cooling/heating when powered. Equipped with a heat dissipation module (requires ventilation during operation).
Temperature Control Button		2-level adjustment: ① Green butt on (Cooling mode); ② Red butt on (Heating mode). ③ Press to switch Cooling / Heating Mode
Temperature Indicator Light		① Green light on (Cooling mode active); ② Red light on (Heating mode active); ③ Off (Unit relies on internal insulation for passive temperature retention).
Power Interface		Dual Power Supply design: ① Car charging: Includes 12V DC car charger cable (for car outlet or portable power station).
Main Storage Compartment		① Stores food/beverages. ② Includes dividers; left side is the cold/heat filtration zone. ③ Lined with food-grade, waterproof, leak-proof, and easy-clean material.
Ventilated Back System		① Wide shoulder straps (reduce pressure) ② Thickened mesh back panel (enhances breathability and reduces sweating).
Auxiliary Storage Pockets		① Front zippered pocket (for cables, power banks, etc.). ② Side zippered pocket (for utensils, small water bottles, etc.).
Sealed Zipper		Waterproof and sealed design, minimizes temperature loss and prevents rain ingress.

03. Cold Retention Mode (Suitable for scenarios without a power source: e.g., during a hike break or picnic intermission)

① **Pre-cooling Preparation:** For extended cold retention, it is recommended to pre-cool items for at least 5 hours until their temperature is below 5°C. Additionally, pre-cool the bag itself by operating it in cooling mode for at least 60 minutes before placing the items inside.

② **Disconnect Power:** Remove the power connection cable.

③ **Maintaining Cold Temperature:** Minimize the frequency of opening the main compartment, as each opening can cause the internal temperature to rise by 35.6-37.4°F[2-3°C]. If the outdoor temperature is high (above 70°C), placing 1-2 ice packs inside the main compartment can extend the cold retention time to over 10 hours.

V. Product Specifications

CATEGORY	DETAILS
Temperature Control Range	Cooling: 38°F - 59°F[2°C - 15°C] (at 77°F/25°C Amb. Temp.) Heating: 104°F - 122°F[40°C - 50°C] (at 77°F/25°C Amb. Temp.)
Cold Retention Duration	8+ hours [power off at 77°F/25°C Amb. Temp.] Extendable to 10+ hours with ice packs
Power Requirements	DC: 12V / 10A
Rated Power	Cooling Mode: 77W (Average Average power) Heating Mode: 65W (Average Average power)
Product Dimensions	15.8" (L) × 10.6" (W) × 15.2" (H) 40CM (L) × 27CM (W) × 38.5CM (H)
Product Weight (Empty)	6.8 lbs (3.08 kg)
Main Compartment Capacity	16 QT (15 L) (Holds approx.: 12x 330ml cans 8-10x 500ml bottles Suitable for fresh ingredients for 2 people)
Material	Exterior: PU Leather (Water-resistant, Tear-resistant) Interior: Food-Grade Waterproof Lining Shoulder Straps: Breathable Cotton

VI. Maintenance

01. Routine Cleaning

① **Main Compartment Cleaning:** After disconnecting the power, wipe the interior waterproof liner with a damp cloth. For grease, use a small amount of neutral detergent. Do not scrub with hard-bristled brushes to avoid scratching the liner. After cleaning, leave the zipper open and air dry in a well-ventilated area. Avoid direct sunlight to prevent material degradation.

② **Exterior Cleaning:** Wipe the external PU leather surface with a damp cloth. For stubborn stains, use a cloth lightly dampened with diluted neutral detergent, then wipe dry. Allow it to air dry completely before storage.

③ **Cooling Module Cleaning:** Only use a dry cloth to remove dust from the module's surface. Do not rinse with water or spray any cleaners, to prevent liquid from penetrating the module internals.

④ **Sand Prevention:** When using the product on beaches, prevent sand from entering the main unit. If sand does enter, ensure the power is disconnected first, then thoroughly tilt the unit to remove the sand or use a vacuum cleaner for clearance.

⑤ **Condensation Water:** During extended cooling operation, condensation water may form and accumulate at the bottom of the cabinet. This is a normal phenomenon and is not a cause for concern.

— **Handling Method:** If water accumulates, disconnect the power cord and gently shake the unit or pour out the water. (This can be cleaned every 24 hours.)

— **Safety Assurance:** A small amount of condensation will not affect normal use of the product or pose a safety hazard.

III. Safety Instructions and Operating Precautions (Read Before Use)

01. Power Safety

Use only the provided standard power sources compatible with the specifications: The DC interface supports 12V/10A (for use with the dedicated adapter or outdoor power stations). 100-240V AC and 12V car charging are supported. Using power sources with incorrect voltage/current is prohibited to prevent damage to the cooling module.

Do not expose the unit to rain. Avoid using it outdoors in rainy weather. If it starts raining during outdoor use, ensure the power is disconnected and the power interface remains dry. Prevent liquids from splashing onto any electrical components or the power source.

To ensure proper vehicle operation, do not use this cooling bag within 30 minutes after the vehicle's engine has been turned off.

02. Usage Environment Restrictions

Do not use the product in environments with excessive direct sunlight (≥113°F[45°C]), near open flames (e.g., campfires, gas stoves), or in damp/water-accumulated areas (water depth ≥10cm), to prevent module malfunction or safety hazards.

The main unit generates slight heat during operation. Keep the ventilation holes clear and unobstructed. Do not cover the vents with clothing, backpacks, or other items.

03. Storage Guidelines

Only store non-flammable, non-explosive items such as food and beverages. Strictly prohibit storing alcohol, gasoline, dry ice, or sharp metal objects (to prevent puncturing the inner liner or causing safety incidents).

Never put water or ice directly into the cooling bag, as it is not a refrigerator. When storing liquids or ice, ensure they are in securely sealed containers (e.g., tightly closed bottles or sealed bags) to prevent leakage into the main unit. In case of accidental leakage, immediately disconnect the power, wipe dry all internal moisture, and only reuse after the unit is completely dry.

04. Special User Precautions

Children must be supervised by an adult when using this product. Do not allow children to operate the temperature control buttons or power connections independently. Prevent children from touching the main cooling/heating module during operation, as its surface temperature may exceed 122°F[50°C] and cause burns.

IV. Operating Instructions

01. Cooling Mode (Ideal for scenarios requiring temperature reduction: e.g., storing chilled drinks and perishables during outdoor camping)

① **Pre-Chill:** Ensure the main compartment is clean and dry. For best results, beverages or food must be pre-chilled in a refrigerator for at least 2 hours beforehand. Pre-Chill the bag itself is also recommended.

② **Zoning:** Use the included divider. The rapid cooling zone is on the LEFT side, and the general freshness zone is on the RIGHT side.

③ **Loading:** Place items requiring rapid cooling in the LEFT side of the main compartment. Close the sealed zipper tightly to minimize temperature loss.

④ **Power Connection - Choose the appropriate power source:**
- **In a Car or Outdoors:** Use the car charging cable. Connect one end to the backpack's power interface and the other end to a vehicle's cigarette lighter socket or a compatible outdoor power station.
- **At Home:** Use the standard 100-240V AC adapter/backpack's power interface

⑤ **Activating Cooling:** Press the temperature control button until the green indicator light illuminates steadily, signaling the cooling module is active. Under an ambient temperature of 77°F[25°C], the air outlet temperature can reach 32°F[0°C]. Within 90 minutes of activation, pre-cooled items in the rapid cooling zone can reach a temperature below 50°F[10°C].

⑥ **Optimal Cooling Method:** For maintaining low temperatures over extended periods, continuous powered operation is the most effective method.

02. Heating Mode (Suitable for low-temperature scenarios: e.g., storing hot soup or coffee during late autumn hiking)

① **Preparation:** Place hot food items requiring insulation (e.g., sandwiches) into the main compartment and seal the zipper tightly to prevent heat loss. Do not place freshly cooked, high-temperature food (≥176°F[80°C]) inside, as this may damage the interior liner.

② **Zoning:** Use the included divider. The rapid heating zone is on the LEFT side, and the general heat retention zone is on the RIGHT side.

③ **Power Connection:** Follow the same procedure as Step ④ in the "Powered Cooling Mode" section, ensuring a stable power output.

④ **Activating Heating:** Press the temperature control button until the red indicator light illuminates steadily, signaling the heating module is active. Under an ambient temperature of 77°F[25°C], the main compartment temperature can rise above 104°F[40°C] within 30 minutes of activation, with a maximum heating temperature of 122°F[50°C].

02. Storage Methods

Short-term Storage (1-2 weeks of non-use): Disconnect all power sources. After cleaning and air-drying, store the product in a cool, dry, and well-ventilated place. Avoid damp environments to prevent mold.

Long-term Storage (Over 1 month of non-use): Disconnect all power sources. After cleaning and air-drying, place a desiccant packet inside the main compartment. Remove the product for ventilation every 3 months to prevent the liner from aging.

03. Common Troubleshooting

FAULT PHENOMENON	POSSIBLE CAUSE	SOLUTION
The cooler cannot start, and the fan does not spin.	Vehicle battery drain	Ensure the car engine is running when using the cooling bag to avoid draining the vehicle battery.
	Faulty vehicle cigarette lighter socket	Check if the vehicle's cigarette lighter socket is dirty, loose, or has no power. Try plugging in another device to test if the socket is working properly.
	Blown fuse in the vehicle cigarette lighter socket	Check the fuse of the vehicle's cigarette lighter socket. If the fuse is blown, replace it with a new one of the exact same type and rating (e.g., 10A).

VII. Service and Support

01. Warranty Period

+ Semiconductor Cooling/Heating Module: 1-year free warranty (covers non-human-induced damage, such as module malfunction or failure to cool/heat).

+ Other Components (Shoulder Straps, Zippers, Liner): 1-year free warranty (covers non-human-induced damage, such as strap seam-splitting or zipper jamming).

+ Human-Induced Damage (e.g., crushing the module, washing the module, puncturing the liner): Requires paid repair. Specific costs will be determined by after-sales assessment.

02. Warranty Claim Requirements

+ To claim warranty, please provide: Proof of purchase (invoice or order screenshot), product model number, description of the fault, and supporting photographs.

03. Contact Information

+ After-Sales Email: support@wowgocool.com

Disclaimer: This manual's content applies exclusively to model (GEC35-05). If the product is upgraded, the latest version available on the official website shall prevail. Please read all safety instructions thoroughly before use. The manufacturer is not liable for product damage or safety incidents resulting from improper use.

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Manufacturer: DuoCool Smart Technology Co., Ltd.

Address: Room 1506, Building 1, Ramada Plaza, No. 6 Linshang Road, Beijiao Community, Beijiao Town, Shunde District, Foshan City, Guangdong Province, China

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VIII. Packing List

